

ANDROID APP DEVELOPMENT ON SHOPPING MALL

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Abstract- The shopping mall application is an application that helps the user to get knowledge about the mall and the shop details. For example if a new shopper is coming to our mall he/she has to install this application which gives him a complete guide about the shop details ,offer details, contact number, location ,viewing reviews, adding reviews and additionally there is a discount calculator. With the help of this module the user can roam in the mall without any help and get to see the reviews by the others to choose the best product in the mall and the shop location can be found by clicking on to the shop name. contact number. And the day to day offers by the shop will be updated in the daily offer module from which the user can find the offer product and the discount percentage and also the starting and ending of offer period. The user can give their reviews of the product or the shop and give rating to them.

Keywords- Android SDK, PHP, System Testing, Data Base, Emulator.

1-INTRODUCTION

Shopping mall app is an application which helps the users to shop independently without the help from the others and get to know about the reviews and also the offers

at the same time the shoppers can get the reviews from the users also. On choosing each category the shops under each category will be displayed and the user can select the shop and can know the details about the shop such as owner number, shop number and the floor number. Thus helping the user to know about the shop location and also get to know about the details using the mobile number provided.

The discount calculator will be useful to calculate the discount prize from the discount percentage. . Helps to calculate everything without any doubts. In the PHP server side the shopping mall shop sellers will update everything day to day such as day to day offer, changing of location and viewing shoppers reviews about their products. Thus help the shoppers to move around the shopping center individually without any guidance and get to know day to day offers and reviews. And to use discount calculator for calculating offer prize. The server side the shop keepers to take control of viewing reviews, updating day to day offer and giving information about their shop such as shop number, and floor number.

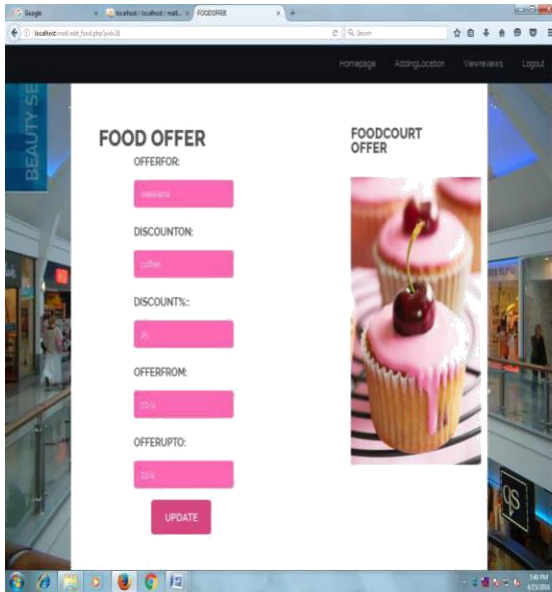


Fig.1. Food Offer

The user can view reviews for every shop and on choosing the shop name further details about the reviews will also be displayed. In turn the shoppers can also view the reviews which make the system a effective one. In the module the user has to give the original rate and the discount percentage .In turn the user will be displayed with the original price, discount price for the given discount percentage and the final sales price which gives the accurate calculation . Every shopper will update the day to day offer .It includes the product name .offer for, offer from and the offer up to period. This helps the users to find out the offer product and the discount percentage and the shop name. The shoppers can view the ratings from the user for their product and also the feedback from the users about them which helps them to improve their service

effectively to satisfy the user.

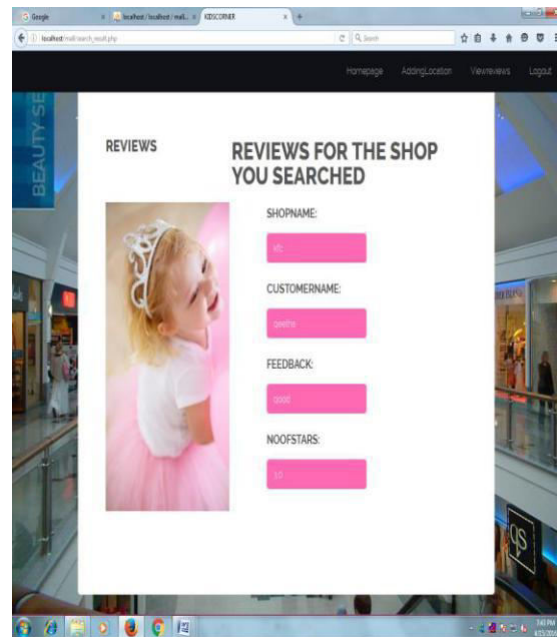


Fig.2.Reviews for searched shops

2-LITERATURE SURVEY

1. Developing of Android Mobile Application Using Java and Eclipse: An Application.

Designs for building NEU-CEIT Android Application are used in detail along with the structures in xml and java files. The tools used can be accessed directly from the eclipse IDE, through ADT plug-in, or from the command line.

There is a shortage of research methods, understanding and analysis of the concern and difficulties that may arise in App development.

2. Application Development With Android: A Review.

Android mobile platform for the application development, layered approach and the details of core features of android platform is used. Any developer would be able to perform their thoughts into reality as the platform is consistent. Developers could just focus on big players, but that defeats the purpose of having a platform in the first place.

3. Development of Native Mobile Application Using Android Studio for Cabs and Some Glimpse of Cross Platform Apps.

More questions are added from time to time, to make the App cope up with the requirements of the users. It provides employment opportunities and also make drivers, owners and the customer's life easy. Consumes a lot of memory and drains the battery quickly.

4. Challenges in Android Application Development:

The design and development of an android based app that can help students in preparation of exams while they are on the move. The Proposed App aims to be User centric. User can view his/her previous results but

administrator can view the results of all the users. Multiple devices, Testing of Android Application, Data Lack of Software/Hardware Integration, are some of the issues faced.

3-MODULE DESCRIPTION

3.1 NAVIGATION

The navigation module consists of four categories they are food, accessories, kid's corner and clothing. On choosing each category the shops under each category will be displayed and the user can select the shop and can know the details about the shop such as owner number, shop number and the floor number. Thus helping the user to know about the shop location and also get to know about the details using the mobile number provided.

3.2 OFFERS

The offers module in the same way consists of four categories which display the offer based on that. The offers module consists of four categories they are food, accessories, kid's corner and clothing. On choosing each category the products under each category will be displayed. For example if the user choose accessories category the offer product will be displayed like shoes, watches etc. And on

clicking the shoes the shop name and discount percentage and also the offer period will be displayed. Based on that the user can arrange his schedules.

3.3 REVIEWS

In the review module the user can update reviews by setting star for the shop and also can add any feedback the shop owner about the product he bought. And also the user can view reviews for every shop and on choosing the shop name further details about the reviews will also be displayed. In turn the shoppers can also view the reviews which make the system a effective one.

3.4 DISCOUNT CALCULATOR

The discount calculator is used to calculate the discount for the product that the user is going to buy which helps the user to get the final value after discounting. In the module the user has to give the original rate and the discount percentage .In turn the user will e displayed with the original price, discount price for the given discount percentage and the final sales price which gives the accurate calculation.

3.5 SHOPKEEPERS(IN PHP)

In the shopkeeper side that is in the PHP server side there will be three modules.

PHP modules:

- Updating Location.
- Updating Offers.
- Viewing Reviews from the users.

3.6 UPDATING LOCATION

In this module every shoppers has to update their shop number floor number contact number and the owner name for the navigation purpose of users. This in turn helps the users to find out your shop location and make their purchase.

3.7 UPDATING OFFERS

In this module every shopper has to update the day to day offer .It includes the product name .offer for, offer from and the offer up to period. This helps the users to find offer of the product and the discount percentage and the shop name.

3.8 VIEWING REVIEWS FORM THE USERS

In this module the shoppers can view the ratings from the user for their product and also the feedback from the users about them which helps them to improve their

service effectively to satisfy the user.

4- REQUIREMENT ANALYSIS

The project involved analyzing the design of few applications so as to make the application more users friendly. To do so, it was really important to keep the navigations from one screen to the other well ordered and at the same time reducing the amount of typing the user needs to do. In order to make the application more accessible, the android version had to be chosen so that it is compatible with most of the Android devices.

4.1 INPUT DESIGN AND OUTPUT DESIGN

The input design is the link between the information system and the user. It comprises the developing specification and procedures for data preparation and those steps are necessary to put transaction data in to a usable form for processing can be achieved by inspecting the computer to read data from a written or printed document or it can occur by having people keying the data directly into the system. The design of input focuses on controlling the amount of input required, controlling the errors, avoiding delay, avoiding extra steps and keeping the process simple. The input is designed in such a way so that it

provides security and ease of use with retaining the privacy.

It is important to avoid errors in the data input process and show the correct direction to the management for getting correct information from the computerized system.

5- METHODOLOGY

5.1 PROPOSED METHODOLOGY

In the proposed system the user gets relaxed because of the navigation tool that he got in his hand makes him relaxed shopping. Make him independently shop. He can know the best product from the right shop with good rating.

The day to day offer module helps the user not to miss any of his offers. The shoppers can also update their offers, contact and location to the user. And get to know about the feedbacks from the user and the ratings they are giving to their products.

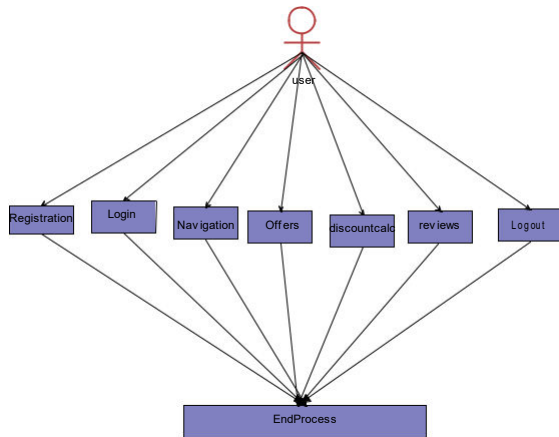
5.2 ADVANTAGES

- Accurate discount calculation
- Reduce Time for searching shops
- Viewing reviews
- Helps shopkeepers to view an update reviews.
- Easy communication between shop

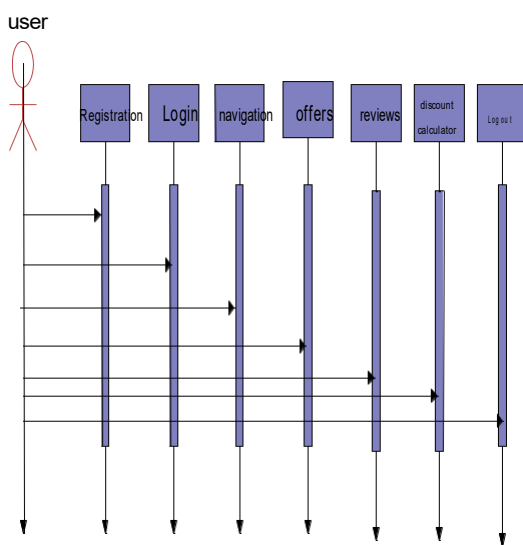
keepers and users.

6-UML DIAGRAMS

6.1 ACTIVITY DIAGRAM



6.2 SEQUENCE DIAGRAM



7-RESULT AND DISCUSSION

The App ensures loyalty to the customers. It makes the customers recognize the Brand. And there would be better and detailed analytics of the Products that have

been sold. And there would also be increased revenues when compared to the normal selling process. There is a dire need to always engage with the customer, and a mobile app makes sure of that. It improves the customer experience tenfold. From the design to the development mobile app makes it easier to work with.

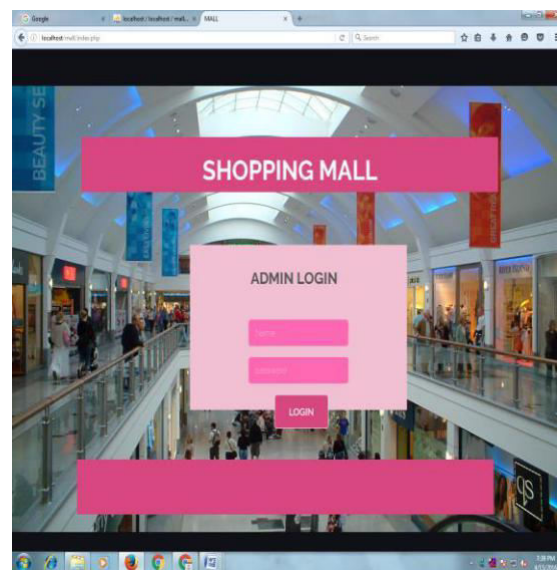


Fig.3 Screenshot of a PHP code

It makes sure to put together all the innovative ideas. And to top, all this is highly affordable. When we digitalize the business we target larger customers than we already did. The app works all over the globe and it hikes up the business. Enhancing the accessibility of products increases. And launching a new product and becomes easier as the mobile App does all the job of making the customers aware of the product. In some mobile apps, employees' work supervision is also monitored.

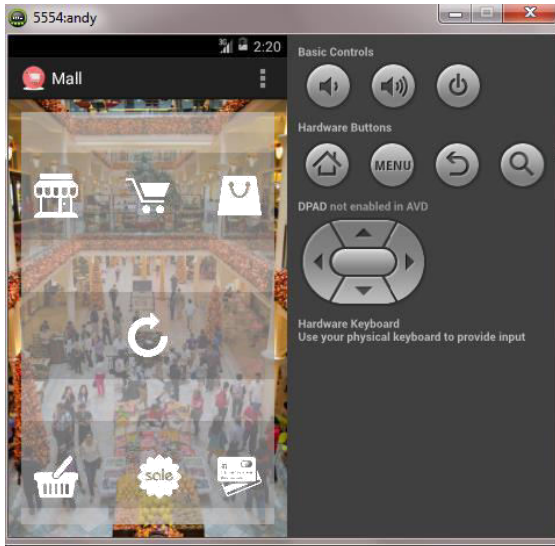


Fig.4. Welcome Screen in Android

8-CONCLUSION

The shopping mall application is an application that helps the user to get knowledge about the mall and the shop details. For example if a new shopper is coming to our mall he has to install this application which gives him a complete guide about the shop details ,offer details, contact number, location ,viewing reviews, adding reviews and additionally there is a discount calculator. In this the user gets relaxed because of the navigation tool that he got in his hand makes him relaxed shopping. Make him independently shop. He can know the best product from the right shop with good rating. The day to day offer module helps the user not to miss any of his offers. The shoppers can also update their offers, contact and location to the user. And get to know about the feedbacks from the user and the ratings

they are giving to their products.

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